

## CLAIMS

1. An electromagnetic valve actuator comprising an actuator member (11, 14) movable under the effect of a resilient member (12, 13) and of at least one coil (20),  
5 and at least one permanent magnet (22) arranged to hold the actuator member (11, 14) in at least one of its extreme positions against the resilient member (12, 13) when the coil (20) is not powered, the coil (20) being associated with a core (16) comprising two portions (17)  
10 having respective first facets (21) in contact with the permanent magnet (22) and respective second facets (23) that present between them an airgap (e) of size that is much smaller than a thickness (H) of the permanent magnet, the actuator being characterized in that the  
15 airgap (e) forms an angle with the direction (25) of magnetization of the permanent magnet (22).
2. An electromagnetic actuator according to claim 1, characterized in that the airgap (e) forms a right angle  
20 with the direction (25) of magnetization of the permanent magnet (22).